

Beth E. Borowsky, et al.
Serial No.: 09/980,145
Filed: April 12, 2002
Page 2

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the claims:

Claim 1 (Previously amended) An isolated nucleic acid encoding a human SNORF33 receptor, wherein the human SNORF33 receptor has an amino acid sequence identical to 1) that shown in SEQ ID NO: 6 or 2) that encoded by plasmid pcDNA3.1-hSNORF33-f (ATCC Patent Depository No. PTA-398) or 3) that encoded by plasmid pEXJ-hSNORF33-f (ATCC Patent Depository No. PTA-570); and is activated by any of tyramine, tryptamine, or β -phenyl-ethylamine.

Claim 2 (Original) The nucleic acid of claim 1, wherein the nucleic acid is DNA.

Claim 3 (Original) The DNA of claim 2, wherein the DNA is cDNA.

Claim 4 (Canceled)

⁴
Claim ~~5~~ (Original) The nucleic acid of claim 1, wherein the nucleic acid is RNA.

Claim 6 (Canceled)

⁵
Claim ~~7~~ (Previously amended) The nucleic acid of claim 1, wherein the human SNORF33 receptor has an amino acid sequence identical to that encoded by the plasmid pcDNA3.1-hSNORF33-f (ATCC Patent Depository No. PTA-398).

Beth E. Borowsky, et al.

Serial No.: 09/980,145

Filed: April 12, 2002

Page 3

Claim ⁶~~8~~ (Previously amended) The nucleic acid of claim 1, wherein the human SNORF33 receptor has an amino acid sequence identical to that encoded by the plasmid pEXJ-hSNORF33-f (ATCC Patent Depository No. PTA-570).

Claim ⁷~~9~~ (Previously amended) The nucleic acid of claim 1, wherein the human SNORF33 receptor has an amino acid sequence identical to the amino acid sequence shown in SEQ ID NO: 6.

Claims 10-18 (Canceled)

Claim ⁸~~10~~ (Original) A vector comprising the nucleic acid of claim 1.

Claim 20 (Canceled)

Claim ⁹~~21~~ (Previously amended) The vector of claim ⁸~~10~~ adapted for expression in a cell which comprises the regulatory elements necessary for expression of the nucleic acid in the cell operatively linked to the nucleic acid encoding the receptor so as to permit expression thereof, wherein the cell is a bacterial, amphibian, yeast, insect or mammalian cell.

Claim ¹⁰~~22~~ (Original) The vector of claim ⁹~~21~~, wherein the vector is a baculovirus.

Claim ¹¹~~23~~ (Original) The vector of claim ⁸~~10~~, wherein the vector is a plasmid.

Claim ¹²~~24~~ (Original) The plasmid of claim ¹¹~~23~~ designated pcDNA3.1-hSNORF33-f (ATCC Patent Depository No. PTA-398).

Beth E. Borowsky, et al.

Serial No.: 09/980,145

Filed: April 12, 2002

Page 4

¹³ Claim ¹¹ 25 (Original) The plasmid of claim ¹¹ 23 designated pEXJ-hSNORF33-f (ATCC Patent Depository No. PTA-570).

Claims 26-27 (Canceled)

¹⁴ Claim ⁹ 28 (Currently amended) ⁹ [[A]] An isolated cell comprising the vector of claim ⁹ 21.

¹⁵ Claim ¹⁴ 29 (Previously amended) The cell of claim ¹⁴ 28, wherein the cell is a non-mammalian cell.

¹⁶ Claim ¹⁵ 30 (Previously amended) The cell of claim ¹⁵ 29, wherein the non-mammalian cell is a *Xenopus* oocyte cell or a *Xenopus* melanophore cell.

¹⁷ Claim ¹⁴ 31 (Previously amended) The cell of claim ¹⁴ 29, wherein the cell is a mammalian cell.

¹⁸ Claim ¹⁷ 32 (Previously amended) The mammalian cell of claim ¹⁷ 31, wherein the cell is a COS-7 cell, a 293 human embryonic kidney cell, a NIH-3T3 cell, a LM(tk-) cell, a mouse Y1 cell, or a CHO cell.

Claims 33-34 (Canceled)

¹⁹ Claim ^{14 15} 35 (Previously amended) The cell of claim ^{14 15} 28 or ^{14 15} 29, wherein the cell is an insect cell.

²⁰ Claim ¹⁹ 36 (Previously amended) The insect cell of claim ¹⁹ 35, wherein the insect cell is an Sf9 cell, an Sf21 cell or a Trichoplusia ni 5B-4 cell.

²¹ Claim ^{14 15 17 18 19} 37 (Previously amended) A membrane preparation isolated from the cell of any one of claims ^{14 15 17 18 19} 28, 29, 31, 32, or 35.

Beth E. Borowsky, et al.
Serial No.: 09/980,145
Filed: April 12, 2002
Page 5

Claims 38-170 (Canceled)